



APRIL 1986	FEATURES	FEATURES		
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	■ Telephone Exchange	н.		
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of Copyright and other	GAMES AND UTILITIES			
	New characters for your C1667	L٩		
	New characters for your C16.			
	# 7op Mon73	Ľ		
	Type in your own machine code monitor.			



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another DM release, deatly entitled Zo Hopefally it's not a game gasamered send you to sleep.

The C-16 game is called Big Mac a that's all we can sell you at the most because Marontonic has labelled it is server. Should be a massify one though look forward to it with relatify Althora in the C109 state but then'on not in the C109 state but then'on not

ordible.

However Consultates have officially shanged their earns to plain self thewore and are periodical and are serving a new image for the new year. Spearheading Hewson's new releases for 1986 is Uniform, the sequel to Paradicoli, which is reviewed in this loss of Your Commoders. Burn to our Artist Epplay societies to 5 find out what we

One. A terrenin group celled be the literation recent in a trying to substrain a little flower fluids to which is simulating the depth of the vidents (Dean a taggless off the world's industrial main ords; carego, There are five computdient where and hose of them are in a hearth of which [17]. Their when comes parting all your reggin over banks (room put to regals noted of the affection of the complete of the affection put to regals have reggin or not to regals to be affecting 10° 50° and in able torques of it with more

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such for even their americane power pend CNES and find out.
Activities that raw released this value on the CAR IT's a graph breviare which will be a rightness emential. This yashe on a find enot each with no memory and an uncertature. It was decided not to take a gui obdar by the sea, then soon should go each with the sea, then soon should go each all your districts, there are to present with detailed graphics and as with advanced and the contract of the details and the contract of the contraction of o TUCKSTIM CAMES

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of no graphics, Most celd — definitely forces.

And for Max Headboom fare — the no based on the files of the bath of the st computer generated TV generates it computer generated TV generates (I soon be appearing on your computer rees. The game is from Quirbolity and as the creation and subrequer career servanic Max. It'll be out on the CSA.

### Touchline Minishadow, Escosis Bill: Activition, 5/7

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Intigna Favor, Qualet Missa: I: Beyond, Sel Rison, Lector Court, SI: Farringdon Pauderid: Henrich, Homes House, Sid Althon Loading Easte, Missa, Adingoles Crean On14 eSt. (OSE 18229): Ing May, Zang, Kaner Moderbrinnin Brill Fad Street, Lamber ECAA CH O ST 2883. Raight Games. Hebbagdier: English Raight Games. Hebbagdier: English

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Editherand, 32 No.





Hard Lines

ow of C12th energing from Commo fare's production flows than the Commodore 138D Not he street Launched at the Whitch Computer Sho in Brindigham in Jessary, the C12th Instandard Commodore 12th ruis's processor risco-computer with as insign all SST clink drive. According to Commodore, the

peckage is aimed at the looking for a competitive point into computing. It I industry standard 5% incidisk drive built into the pedetachable full travel professional

Commoder (UK) III. 1 (Section 24)

Touch Line Micronet 800: 5 Herhal, London Fritz or

### Generally Speaking

HACKERS BEWARE THERE IS NOW A





Yough Line

Database Publications: Europe House, 66

Computer Weekends



### Missives are are the budget solvere houses

The page where you tell us

Computing

Not so Esse Entre



logs will be much easier

COMMODORI LISTINGS ARE RATHER In future of covered and working



bu Gremlin Graphics







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### THE FINAL CARTRIDGE

THE FIRST OUTSIDE OPERATING
SYSTEM FOR THE CBM 64 \*



### This new operating system built in a cartridge does not use any memory and is always there.

BBM TURBO - 6 smeet fazur handing - 5 meet fester seving: MAPF TURBO - 11 smeet fested, meet ANPF TURBO - 11 smeet fested, meet commenced - compatible with standard souther. ANYANCEO CENTRONICS THY B-TAKE I compatible over all few cent. ANYANCEO CENTRONICS THY B-TAKE I compatible over all few cent. Green prices prospecting. Forms all the Commendation green and centre.

Communities graphics, and summed cables improved the Secretary Secretary Secretary ECESEN SIMP FACTURES: of few Private hid page and 1.2 sealest of gray for maintaining policies areas from pames for the secretary address of the Policies Secretary address of the Secretary Secretary address of the Secretary Secretary address of the Secretary Secreta

BASIC 4.8 COMMANDS - No Disso Dasse, Gappeni, Calaring, etc. BASIC TOOLAST - with Just, Sensor Juni, Gato and Greate, Find, Rep, Oldste. Committee of page areas interpretation of page areas interpretation.

RESET SWITCH, - results to more the reset with all models to 16 year principal resets every principal program.

ON-OFF SWITCH - no hope you make model from one.

FREEZE FRAM

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Days manner 12 Months replaced by the comment guerannee.

COMPLETERS: No Account 2 EZ top

# DESAPORE LOCATE

P. Green reveals some techniques to make it easier for you to find and correct data errors.

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FROM A.ACA.PERSIGNMENGAP136

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Machine Code

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7-

where LOC is the start location divided?

84. This can be obtained from it program.

The first spities should now appear of the right side of the screen. I presume it pool have a rough 1 dies with the spit should look like and should be able spot any error. If you have needed areas are amendments to the data and use it program your. Any shapes in the die program your. Any shapes in the die

gain. Any changes in the see the spetie. Duce this spetie for graine pois ext spetie should be cloplar checked in the same way, no loc all the same way, no loc all the same way.



K Otton and A Adams introduce you to the intricate world of computer communications.

# EXCHANGE

### PRODUNENT DISCUSSION

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PRODRAM BOOT SEMENATOR

1889 PRINT "TOLERS, DOWNWOOD
RUN THIS PROGRAM WELL
SEMENATE AN"

A CHITCE, 130M300ME BOLL 1936 MEM -130M300ME BOLL 1936 MEM -130M300ME BOLL

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Auto Dialling

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will recognise the

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368 (11.7, 01.7), 11.7,

SYSOP: KEN PARNEN
WELDOME TO THE MATRIX:
THIS IS NEXUS—I (MANCHESTER)
AUTHORISED USINS PLEASE LOGII
WITH YOUR NAME: AS PROMPTED.

FIRST NAME! NIKE
LAST RAME! ROWE
LAST RAME! ROWE
SEARCHING USER FILE.
CALLING PROM LONDON
STHIS CORRECT! V
ENTER VOUR PASSWORD.

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Called free LONDON
Your last these as use \$1,144.695 12.11
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ROOT Meeafleespaps. Of all types 33—Line. , Magazine (Fastures an 55.) Grev. ... Whats New on the Matrix Jesterslasseet. , fron time! Joer. , Micro users groups Uses the ... Results of the usetionaire

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and connect the comparer.	2539 3979 22,52,32,52,52,52,52,	PRINCIPAL CORNI SENZ	12.22.12.12.22.12.22.12.
When only one line is	12, 22, 12, 22, 23, 13, 22, 23,		
		2888 FOR Live 10 86-C1+8	
available for both normal calls	12,42,522		2216 Date 22, 12, 21, 12, 21, 12,
and modern calls, a caller			12, 22, 12, 13, 5, 18, 12, 1, 18,
wishing only to speak will be		CO-CO-RIFORD RESIDENCE.	55,417
amwered by the modern's	26.584	AUST 1	
			2229 2818 22, 22, 21, 48, 48, 47,
cur off after a set time if no	2558 0479 15,72,77,1,9,14,72,		
incoming carrier is detected.	77,5,14,71,46,46,46,46,46,46,		47,598
		2000-1-1201-1202	
	117		2228 8416 6,21,12,13,47,14,
Self Test	2548 2679 44,79,56,72,72,72,72,		15, 12, 16, 1, 18, 8, 34, 25, 33,
	12.42.41.12.11.12.12.11.	2949 Salts 12, 22, 22, 22, 22, 22, 22,	
			22,522
Normally, this is a neithb, ough	12, 33,440	22, 12, 12, 22, 12, 12, 12, 12, 12,	2248 0479 32.57,52.57,52.37,
button or moveable link which			
connects the transmit and	12,12,10,31,32,12,12,12,	2956 0479 32,32,52,32,32,52,32,	12, 22, 417
receive circuits together giving	12,11,512	11, 12, 12, 11, 12, 12, 12, 12,	2258 0636 52,32,52,52,52,32,52,
a loop back into the computer.	2588 DATA 32.32.50,33.32,52.	12,12,512	2,0,0,2,0,0,0,0,0
	22, 52, 32, 52, 52, 53, 52, 52,	2848 2879 22,32,32,32,32,32,32,	32.32.92
	12,42,523	12, 72, 12, 2, 15, 1, 10, 4, 15,	20ad 64fk 32,12,52,52,53,52,53.
test the program and the RS232		2679 2676 16.1.12.5.72.72.72.	22,52,517
	12, 52, 22, 12, 52, 22, 12, 52, 22,		
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	2000 SW14 52, 53, 52, 52, 52, 52,		10, 21, 11, 10, 11, 11, 12, 11,
Indicator Lights	52, 21, 12, 12, 11, 12, 31, 12,		12, 22, 512
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available, you will notice that		12, 13, 917	12, 21, 12, 23, 21, 10, 21, 12,
		here burn 12, 10, 21, 12, 13, 22,	12,32,512
some have several fittle	22,42,42,22,12,12,22,12,12,		
indicator lights. These can have	31,12,533	12, 22, 12, 10, 23, 12, 12, 22, 21,	
	79:36 SAFN 33.37,53.32.52.52.33.		
	32, 12, 23, 12, 23, 21, 12, 22,		512
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13A others these facilities, with	12, 42, 42, 42, 42, 42, 42, 42,		17,12,117
	12, 42, 472	22, 17, 12, 21, 12, 22, 21, 12,	2220 Sect 22,72,22,52,52,52,52,
	345# 3834 42,43,42,42,43,42,	22,57,512	12, 22, 11, 12, 21, 12, 22, 21,
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#5332 inserface analyble from			32, 32, 52, 31, 12, 52, 32, 52,
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sate is 306/300. This refers to	25/W 2474 78.8.6.6.6.8.4.18.6.		22, 12, 12, 12, 12, 21, 12, 21,
the speed at which data is trans-		2150 Darie 22, 72, 72, 72, 72, 72, 72,	22,72,92
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wats for a reply which you	LOSSY-CHRESTS - "COMP. SEN		12, 21, 12, 22, 11, 12, 21, 13,
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send at 75 bits per second. The			
revene would apply where TU1208 is showers.	HARS BER IN CHARGE .	12, 12, 27, 12, 21, 17, 12, 21,	2579 8414 32,12,52,12,52,52,52,
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As the 1200/1200 baud rate	YOU AND USERS TAPE OF	210F Date 12, 22, 12, 13, 23, 12,	22,12,52
		2.1.2.2.1.2.1.2.1.1.	TIME DATA 33, 33, 33, 33, 33, 33, 33,
Son, the 75/1200 or 1200/76	4836 PROST*13089439UN*		
tates are preferred. This also	4626 FOKE 621,12: FOKE 622,12	32,32,512	22, 12, 22, 27, 12, 21, 12, 22,
means that time can be saved	190KE 435, 12:90KE 156, 3	21/94 0419 22-12-12-12-12-12-	12,12,512
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prices bit again) when re- positing or transmitting data at	190871009E31		22M NOT 11,12,12,12,12,12,12,
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78,82,1898 # BATA 13,17,12,82, 87,82,84,84,78,12,1 88,22,798 W BATA 88,82,75,76,82, 82,8,12,12,75,76,32 32,766 M BATA 88,82,67,83,82, 83,89,82,87,87,82,83

6,13,23,73,73,33,73, 706 ATR BE,BC,LF,BT,GC, SP, MC,ET,LF, TJ,44, 45 TO, MEM ATR BE,TF, TS,47,79, TO, TE,BE, EF, TJ,47,83, (1894

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Setting Up

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THE REAL CO. S. LAN. P. LAN. P.

F5 - Send Pre-Typed

Mouse

PROGRAM, COMMA GAME THE FOR LIFE TO RE-THAN THE PARTY OF THE PERSON A

## BOOK

SHFLF

Title: Tool Kit: Kerna

Titles Commodore Ref.

Title: The Second Book of





### **BOOK SHELF**



YOU CAN MOAN AS MUCH 2 04/08

worth one of My Minter's 3 Pushion Sprike

As always, the code is a FEI leaded from a Static loader

13. Sprite/Sprite Collision

16. Sprite/Earleyward

market. Time to chaples &



I regard you look at the

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5,185,65,183,17,23,506



PRINCIPAL SPRING SERVICE

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Computed Answers

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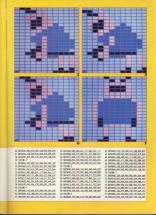
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**EXTENSION 64** 

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LABBOR, Or receasing your crow under an abrudger S Steller

A Sea County II Shad held to be a sea of the Brigation . ti tata St. Fareduce St. pa Marco D Section

Runescaster reveals the basic skills of adventuring and worms his way into some new software.

MVERAL PECPLE HART WEITTEN IN 11 see they have been given given giveninges be do not know what to do with them? It was seen shrangs to regular readers of the column but do you remember he poor got on with the first adventure your strenges of the first adventure you was attempted.

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places. Necestheless, you must be able to than a complete mup of your travels one if it means you have to be been coming but to the same place and laying different moves. The standard system is to draw number of boses, as in Eguer 1, printed it has been desired by the comment of the comment of boses, as in Eguer 1, printed it than the comment of the commen

the program tells you for obtaining the formal abording agit that the habit of trial all directions - programmen are deal creature, there must be on-obtained Marin and difficult to rigin, When I come across several foculties that to the same or very similar description habit out There are a sender salation, on a similar thereby, lot of larging the questions have due you me each location awayer, so that you a record in all soluble previous on your ma record in all soluble previous on your man.

cere - this was to drop an item at a location Fig. 2, so that on exturning the you would get a electrication that adthe chapped item, so: "FOU ARE IP MAZE OI TWISTY PASSACES - THEIR AN AIE. HERE!". With the last plasupplying the unique deliration. As mentioned above, programm



py you napping a mass so could One there:
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more locational Look carefully a the description is written, perhap some slight difference – an a comma perhapa!

Rale number two is: Les language. Find out which wo understood and the way in whiinput command has to be wisten adventures will accept an input. CGT ALL BUT THE RELIGIOUS SQLITH AND SIT ON THE ELVIN THECOM!. How experienced along make use of such complete com-

contains in the mina stages of searing what a gene is of about. It is much more small rouse the simple verbrings rype of inpot such as: "GIT SHORDS" or if reconsery "RUN QUITE!! SHORDS" or if reconsery "RUN QUITE!! SHORDS" or if reconsery "RUN QUITE!! SHORDS what have been what so or much the weeks that will be understood - do you have to use "EXAMPLE," SHARDS or "LOCK." Can you "CILVINE" a bench or do "LOCK." Can you "CILVINE" a bench or do

you have so use "DAMANI", "SCREET or "LOOK?" Can you "CILIVID" a bench or do you have to "GELOK" or "This familiarity with the peoplers is imposted to get the most load of it — a does not take too long to learn a new game," infrontonzales but it is still three well agree.

Deen the program support the use of PELF and then give you she odd tabel it will alread certainly react to "PANTNOW?" and oil you what you are carrying, bhave importantly, does it allow you to "ANT" your present states and position, so that you can seturn in the

have a compact the backing data. The back is a compact the backing data without menages have transfer have a compact and a compa

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took to passive or home, pose this trange world which you have interest to the post to the

it you must live the part and that is understanding its rules. Finals, although one of the time. Bhalls, although one of the time althautions of an adventure game is vay in which the alternature has free of merement and action, you must froger the final objective. This may necess the fair potential, sare the will object a super-criminal, entage for inhospitable plants or just find is a

# Christmas Bonanza

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Swashbuckling For Everyone
The proble near at Adversare International must share the ratings with Lond
5 for producing this country's top adventure, Unible Level 3, whose pains are nearly all original Ideas, AT Intils II

usacases (Spiderman, Ceremino etc.)-inoking magin-reproduce a receiver that all a signification of the same of the same of the same of the same of the same. That is a made-option for a same. That is a made-option for the same is a same of the s

depending assessment and an experience of the possibility of the second of the possibility of the comparer who have to not and end seed the comparer vendor can achieve the came popularity.

The stary-time is fairly simple; you are the cognition of the prices vened Bambon.

on the top of a mountain at the northern rend of the felland does. Quidently recommend do this is not clear but their recommendation; I magination plays advention games.

Not having 'playord' the book I cannot compare the two products, all I can say it that the computer version is on a par with solve. A! record reference. It has post

docarda giagonist and a nimer operand langua commissado en given e-tre a timbra forma principira commissado en given e-tre a forma velevistado da not automávio, in fact tibra com el Arriv persparan a quien composibilidad com el Arriv persparan a quien composibilidad com el Arriv persparan a quien composibilidad com el Arrivo de la granda de servicio complexado de la granda de servicio propriende, il a granda de servicio complexado de la granda de granda de la granda de granda de la granda de granda de granda de la granda de granda granda de granda de granda granda

girly indicating, it does encourage is egils direct agreement which is perhaps so of its attractions. Notes that the gare is the first of the plating factory tides—with the encourage shaping. Ethiconect you attack or an arched, the acrees displays a per- as casing side and a series of throw spremiens the custome of the better proprieses the custome of the better.

Egodom faction such as these can rain a scherobe good advertione game but the param works golfer well.

Used you have feemed what has to b looght, the fighting aspect can make the game fairly short! Persevere and this become clearer, Some roles can be ablanced out by judicions SANTing of the

game. The game stars with you absent the Samehee. To more you must type in "54" SQL(Tot' etc., a bit long winded but their the system. There are over 400 apparent locations but, as a very large number of

ADVENTURE

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# LANGUAGE

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David Janda becomes bilingual once again to bring you an analysis of PROLOG.

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Personal Money Manageme designed to help your run tore accounts. Done of three should thepe accounts those of three should thepe account which should commonly required for paying bills grown appending the other is a document which should common any cash that you have at our time.

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# MONEY MANAGEMENT



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# Verdict

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### My advice is to keep you and bank manager happy; go and buy a of PMM, it will no doubt pay for it

Name — Personal Money Manager Supplier — Commodore, 1 Hunten Road Weldon, Corby, Northampsanshire NNTT IQE, (9506) 295252 Keep a track of who's who and what's what with this C 128 database from Frank Tout.

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run detection further and etc.

will direct any crosp in the

manufact submy crospined;

The C64 Autoboot

Program 2 works for change the seemery configuration that used by CS4 mode a short simulating the CS4 EC conditions from Fingla, 5th five beytness built or a short start workers. Fingla, 5th five beytness built and the CS4 program. The program couldes hard, cots FAM seemery address 2000 bers, there the the book word by CS4 mod the book word by CS4 mod

and BRO-CFFF has one of the broad by the mode change that for the mode change that feelines is bestraffy and green since my property or pr

180 acs-"nO:"+drs+","+1ds EVEDVIDIEK ERROR DETECTED ... ebect 150 print "CDOWNICDOWNICRIBATIONIO

180 open 15.8.15."1", open2.8.2."\* 200 if do then begin

270 print "CODWNSCODWSCHICHTSCPUR

300 if len(f8) >16 then begin

340 loop until f80" and len(f8)

350 do:getkew a%:loop until a%-"1" 400 BLIST CEDOMATEDOMATRICALICATOR

380 print "[DOWN][RIGHT][RIGHT]Sel

380 print#8.chr#(168);ohr#(v1);ohr 490 printed is

510 closed: closelS

570 dolear 580 print chrs(7); "CDDWN1CDDWN1CRE

80 beave "autoboot", u8, b0, p18288 t

100 data 165,166,5,98,141,66,48,16

180 data 0.189,247,142.0,255,141,5

130 data 213,142,48,208,162,255,12

180 data 0.189.81.40.157.119.2.232

PED CHIN !

240 can this is the acuit code of

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